



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael M. Ramarge et al. Art Unit : 2832  
Serial No. : 09/940,539 Examiner : Karl Easthom  
Filed : August 29, 2001  
Title : MECHANICAL REINFORCEMENT TO IMPROVE HIGH CURRENT, SHORT DURATION WITHSTAND OF A MONOLITHIC DISK OR BONDED DISK STACK

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2/12/03

Commissioner for Patents  
Washington, D.C. 20231

**RESPONSE**

In response to the action mailed November 8, 2002, please amend the application as follows:

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In the claims:

Please cancel claims 2, 4, and 21.

Please amend claims 1, 5-7, 9, 13, 17, 22-23, and 26 as follows:

1. An electrical apparatus comprising:  
two terminals accessible from an exterior of the electrical apparatus;  
an electrical element comprising a monolithic MOV disk having an outer surface and two ends, the ends being in contact with the two terminals, the monolithic MOV having a rating of at least 6 kV; and

a reinforcing structure attached to the outer surface and constructed so as to enable the monolithic MOV to withstand at least one 100 kA impulse, wherein the reinforcing structure comprises a fiber matrix pre-impregnated with a resin, the fiber matrix comprising a pre-woven fabric.

2. The apparatus of claim 1 wherein the fibers in the fiber matrix are oriented in a predetermined orientation with respect to an axis of the electrical element.

3. The apparatus of claim 5 wherein the fibers in the fiber matrix are oriented parallel to the axis.

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01 FC:1202 486.00 CR  
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01 FC:1202 486.00 CH  
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